

HAMSTERS	HAMSTER NUMBER	DAY PARALYZED		DAY BLED AFTER ONSET OF PARALYSIS	100 LD ₅₀ 14 days
		AFTER INOCULATION OF LANSING 10 ⁻²	AFTER INOCULATION OF LANSING 10 ⁻¹		
Single inoc * NORMAL ADULTS of Lansing virus 10 ⁻¹	836	—	NO PARALYSIS	—	neg
	837	—	NO PARALYSIS	—	neg
	840	—	15	22	4/10 ?
	841	—	NO PARALYSIS	—	neg
	843	—	NO PARALYSIS	—	5/10
	844	—	NO PARALYSIS	—	neg
+ LANSING VIRUS 1:100 CHALLENGED 75 DAYS LATER WITH LANSING VIRUS 1:10	405	NO PARALYSIS	4	33	5/9
	726	2	NO PARALYSIS	110	4/10
	734	3	NO PARALYSIS	109	3/10
	762	10	NO PARALYSIS	102	7/10
	784	18	NO PARALYSIS	94	4/10
	786	NO PARALYSIS	6	31	2/10
	818	NO PARALYSIS	NO PARALYSIS	100	3/9
+ LANSING VIRUS 1:100 CORTISONE 5 MG 10 DAYS LATER CHALLENGED 75 DAYS LATER WITH LANSING 1:10	191	NO PARALYSIS	4	33	3/10
	798	NO PARALYSIS	4	33	5/10

* The normal adults were bled 37 days after inoculation of Lansing 10⁻¹
 + The challenged animals were bled 112 days after inoculation with Lansing 10⁻² and 37 days after the inoculation of Lansing 10⁻¹

Effect of Cortisone on Intracerebral Infection with Lansing Poliovirus.

Experiment	Hamsters used		Cortisone used	Treatment	Dilution of virus	No. of hamsters	Result		
	Strain	Weight Gm.					Morbidity %	Mortality %	Average incubation period days
4-18-51	A	24-44 34.6	5mg/ml. Benzyl alcohol Lot. No. 103	None	1:20	10	100	50	4.0
				5mg. once	"	10	100	60	5.0
				None	1:100	10	40	0	3.8
				5mg. once	"	10	50	40	5.4
5-25-51	A	24-35 29	25mg/ml. Benzyl alcohol Lot. No. 1322	None	1:100	20	40	20	6.6
				5mg. once	"	20	95	80	5.2
	B	15-23 21		None	"	19	68	26	3.8
				5mg. once	"	20	100	95	4.8
6-19-51	A	14-27 21	25mg/ml.-alcohol* 5mg/ml.-alcohol** 5mg/ml.-saline	None	1:100	19	42	16	10.8
				5mg. once	"	20	100	85	5.5
				5mg. "	"	19	79	68	5.1
				5mg. "	"	19	79	68	6.0

A = Lakeview Colony Hamsters routinely used in Cincinnati

B = Brooklyn Breeding Institute Hamsters - used by Schwartzman

* Lot No. 1322 ** Lot No. 131

Table 3

A. Effect of Cortisone (one dose of 5mg). on Infection Resulting from Different Doses of Lansing Virus in Baby Hamsters
 B. Minimal Amount of Virus Required to Initiate Infection in Untreated and Cortisone - Treated Baby Hamsters

Experiment of 6-26-51 - Results 3V days after virus - Cortisone lot No. B98 - 25mg/ml.

Effect	Group	Result at indicated dilution of virus						Remarks
		10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵		
MORBIDITY	Untreated	9/10	5/10	1/10	1/10	0/10	0/10	PD ₅₀ = 2.1
	5mg. once	9/9	10/10	5/10	1/10	0/10	0/10	PD ₅₀ = 3.2
MORTALITY	Untreated	0/10	1/10	0/10	0/10	0/10	0/10	LD ₅₀ = 1.0
	5mg. once	9/9	9/10	5/10	1/10	0/10	0/10	LD ₅₀ = 3.0
Average incubation period in days	Untreated	4.1	4.8	6.0	12.0	
	5mg. once	3.8	5.1	4.4 7.7	8.0	

Cortisone in Hamsters July 1 - Dec 31, 1951

<u>Date of Test</u>	<u>Test and Result</u>
6-26-51	<u>Titration of Lausing Virus in Adult Hamsters</u> + Baby $PD_{50} = 1.8$; $LD_{50} < 10^{-1}$ as compared to PD_{50} of 2.1 and $LD_{50} < 10^{-1}$ in baby hamsters
6-26-51	
7-13-51	<u>Effect of Cortisone on adult hamsters</u> Groups of 10 - 1 dose of 5 mg had no effect.
10-25-51	Effect of Cortisone on Polio in Hamsters of Different "Ages" + weights Also effect of 25 mg. on large hamsters
Early July	- Additional titrations of virus in cases of treated and untreated hamsters.

Cortisone in Mice

7-17-51	Effect of 10^{-4} dose in untr. + cortisone treat
10-30-51	Effect of Cortisone on MEF ₂ in mice Complete titration - no signific. diff. Slight edge. for cortisone
12-10-51	Repetition of MEF ₂ test with 30 mice per dil. on 10^{-4} + 10^{-5}
7-24-51	} Effect on Suckling Mice
11-7-51	
7-13-51	Effect of Cortisone on level of viral multiplication in mice a) Sacrif. at onset of paral. - untreated - 3.95 - treated - 3.6 b) All sacrif. on 2 nd day untreated - $10^{-3.2}$ Treated - $10^{-3.5}$